APPENDIX 1

Table 1: Opportunities and Barriers to implementation of a Forest Health Strategy for Washington State

Table 1 outlines the most feasible opportunities for implementing a forest health strategy for Washington State along with barriers that may arise for each opportunity.

The barriers are arranged into the following categories: economic, social, educational, human relations, institutional, regulatory, environmental, scientific, and administrative.

While not an exhaustive list, the majority of concerns raised during working group deliberations are included. The table assits ranking opportunities for funding and implementation.

In particular, some barriers do not require funding, but do require a fundamental rearrangement of organizational practices among affected entities (agencies, organizations, and individuals) can be modified while procurement of necessary funding is obtained.

Ī			Opportunities					
				Technical		Cooperative	Community	Include non-market
Barriers	Prescribed Fire	Thinning	Education	Assistance	Incentives	Agreements	agreements	values
			Recent loss of FTE's	Recent loss of FTE's				
			needs to be	needs to be	Estimates of \$200/ac		Not all participants	Inclusion in risk
		Non-merchantable	addressed as well as	addressed as well as	for sm diameter	Reduced protection fee	are 'equal' due to	equations clearly
	Not feasible on small	costs may override	ramping up to meet	ramping up to meet	removal; \$100/ac/yr		funding limits on	shifts balance toward
Costs	parcels	merchantable volume	FH	FH	for overstory retention	participation?	private participation	treatment
								0 414 1
	Decree la lanta de la							Quantifying non-
Loss of	Regen is destroyed							market values and/or
sustainable	during repeated							establishing markets
_	overstory maintenance burns							(eg carbon or water) may be required
economic return	Dullis							Increases the non-
1								market component of
Lack of markets		Adds to cost issue						cost reduction
		7.4440 10 0001.0040			Allocation of scare			
					funds should be			
					ranked by	Need DNR policy	Community interests	
Lack of capacity				Need increased	effectiveness.		may not be	Research on non-
(FTE's, people,		Need to extend	Need increased	funding to provide	Competitive bidding	-	sufficiently	market values and
skill sets,	We are losing our skill	knowledge for site	funding to provide	tools and train the	might be most	organizations to meet	represented without	how to implement is
funding)	set in prescribed fire.	specific treatments	education	trainers	effective	strategic plan goals	funding mechanisms	needed

ſ			Opportunities					
				Technical		Cooperative	Community	Include non-market
Barriers	Prescribed Fire	Thinning	Education	Assistance	Incentives	Agreements	agreements	values
Loss of			What information is		What incentives			
infrastructure to		Small diameter wood	needed to restore		would be effective to			
use by-products		processing capacity is	declining		improve			
of FH treatments			infrastructure?		infrastructure?			
			Include insurance	Include insurance	Include insurance		Does participation	
	All groups face high risk	_	companies as part of	companies as part of	companies as part of		increase liability	
Liability exposure	with prescribed burn	federal land	the mix	the mix	the mix		exposure?	
	Small landowners find							
	prescribed fire cost			Hard to motivate			Harder to include	
	prohibitive and		Hard to reach small	some owners even if			contiguous tracts in	
•	administratively difficult		landowners	they can be reached			any planning effort	
Regulatory	daminotiatively announce		iandownord	andy dan be readined	incentives will not	Does participation	any planning enerc	
uncertainty (i.e.		Sustainable economics			producematching	garner any benefits		
no long term		requires periodic			investments with	given statutory limits on		
assurances)		income			uncertainty	decision making?		
,								
								Institutional focus on
								symptoms vs
								prevention (eg. fire
	Beneficiaries may not	Beneficiaries may not						fighting vs allocation
Lack of education		be aware of either						to education/tech
	benefits or their costs	benefits or their costs					x-	assistance)
has declined and			need new tenchology tools, training of					,
new technology			trainers, and to	Need more trained				
needs to be			increase the number	extension capacity				
added			of trainers	and consultants				
Electionig/aucqua			OI II alli lei S	FUUI ASSISIANCE CAN				
te training of				be worse than no				
consulting				assistance I.e.				
groups				litigation & loss of				
				Teamwork needed to	Incentive programs			
				avoid the regulatory	here today and gone			
Lack of trust	х-	х-		backlash	tomorrow		х-	

ſ	Opportunities								
				Technical		Cooperative	Community	Include non-market	
Barriers	Prescribed Fire	Thinning	Education	Assistance	Incentives	Agreements	agreements	values	
Extensive time									
lag in building									
necessary			Door to door selling	Door to door selling			Door to door selling		
relationships			may be required	may be required		x	may be required		
		Not all entitles chose to		Cań racilitate a		Can lacilitate a	Cań racilitate a		
management		manage for reduced	landscape level	landscape level		landscape level	landscape level		
goals		risk to mature stands	approach	approach		approach	approach		
On alla!						Relates to mechanism			
Social						between gov't's (state,			
acceptability					Increased fees for	fed, tribe). Executive			
including					non-treatment -	allocation of scarce	Will local input be		
executive					especially for small	resources determines	sufficient to override		
support					landowners	effectiveness	urban votes		
						Limited authority but			
						ican ncrease			
Statutory issues						cooperation			
						Basis for stronger			
			Technology and tools	Technology and tools		partnerships needs			
			are needed as well as	are needed to	Funding is locked into	development given the		Need to look for new	
Institutional			education on	support tehncial	reactive rahter than	statutory decision	Process for coming	accounting	
procedures			stewardship	assistance	preventive paradigms	making limits?	to agreement	mechansims	
	RMZ/owl circle	Rmz/owl circle							
Damulatiana									
Regulations	protection. Smoke caps.	'							
Implementation	Unintended	Unintended			Alt Die of teachers			literial al altar	
of regs	consequences	consequences			Alt Plan framework			Integrated valuation	
		Salvage of even a few							
Forest Practice		trees involves				Streamlining of			
Permit issues		significant \$/time				permitting process			
		Risks of			\$200/acre to		quantify the definition		
Proximity to		arson/accidental fire.			encourage removal of		of community and the		
human	Smoke and fire escape	Better chances for use			non-merchantable		'reach' into the forest		
populations	risk	of materials			material		of community groups		

			Opportunities						
Barriers	Prescribed Fire	Thinning	Education	Technical Assistance	Incentives	Cooperative Agreements	Community agreements	Include non-market values	
	Remove the '0' tolerance approach and								
	allow federal guidelines								
implementation Hot fires (i.e.	to prevail								
=	Risk too high until								
because of high	ladder fuels are								
_	removed								
	Especially close to								
	urban centers								
on specific		Cita anacifia dancity	Cita aposifia donaity	Cita anacifia danaitu					
prescriptive		Site specific density and composition	Site specific density and composition	Site specific density and composition					
strategies		thresholds needed	thresholds needed	thresholds needed					
on atogree		aniconciae necesa	unosheras nosaca	amouncide needed	assessment needed for fairness and				
					effectiveness.		Different		
Uniformity in				Need data that is	Competitive bidding		communities have		
application of				consistent across	could contribute to		dif't limits for		
rules/monitoring			Harder to establish	ownership/landscape	potn.		treatment boundaries		
Lack of spatial data	Harder to prioritize	Harder to prioritize	Harder to establish need	Harder to prioritize	Harder to enforce		v		
	Can't design reliable	Can't design reliable	Can't design reliable	Can't design reliable	naidei to efficice		Α	Can't measure	
_	treatments	treatments	treatments	treatments	Can't qualify		x	values	